

EAST - (Untitled1:1)

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L1: (120656) disk adj1 drive
 L2: (134) "lower ferromagnetic layer"
 L3: (1094) "second ferromagnetic layer"
 L4: (1171) 2 or 3
 L5: (310050) heater
 L6: (B) 1 and 4 and 5

DE: US 6008 0604T 000 000 000
 Define operator: OR

1 and 4 and 5

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	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XR	Retrieval	Inventor	S	C	P	S	S	S
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	US 20040234818	20041125	28	Perpendicular magnetic recording medium, manuf	428/694TM	428/694T		Tanahashi, Kiwamu et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	US 20040233565	20041125		Perpendicular magnetic recording medium and ma	360/66	360/59		Arai, Reiko et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	US 20040071923	20040415		Method for thermally-assisted reco	428/65.3			Fullerton, Eric E. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	US 20030108721	20030612		Thermally - assisted magnetic recording disk	428/195.1	428/694TM		Fullerton, Eric E. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	US 6834026 B2	20041221		Method for thermally-assisted reco	369/13.1	369/13.42; 369/275.2;		Fullerton, Eric E. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ HTML
☐ XML
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File New Edit Tools Window Help

Drafts Pending Active

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L4: (1171) 2 or 3
L5: (310050) heater
L6: (5) 1 and 4 and 5
L7: (4777) ferromagnetic adj1 layer
L8: (2980675) plural or plurality
L9: (152) 8 adj5 7
L10: (0) 9 and 5 and 1
L11: (45) 1 and 5 and 7

Failed

1 and 5 and 7

	U	1	Document ID	Issue Dat	Pages	Title	Current OR	Current XR	Retrieval	Inventor	S	C	P	3	4
1	F	F	US 20040265570	20041230		Vertical magnetic recording medium, its m	428/328	428/337		Takahashi, Migaku et al.					
2	F	F	US 20040234818	20041125	28	Perpendicular magnetic recording medium, manuf	428/694TM	428/694T		Tanahashi, Kiwamu et al.					
3	F	F	US 20040233565	20041125	24	Perpendicular magnetic recording medium and ma	360/66	360/59		Arai, Reiko et al.					
4	F	F	US 20040212909	20041028		Method and apparatus for read error recovery	360/66	360/53; 360/75		Naka, Hiroyuki					
5	F	F	US 20040211569	20041028		Installation and use of removable heaters in a	166/380			Vinegar, Harold J. et al.					
6	F	F	US 20040185306	20040923		'Thermal spring' magnetic recording medi	428/694TM	360/131		Coffey, Kevin Robert et al.					
7	F	F	US 20040071923	20040415	10	Method for thermally-assisted reco	428/65.3			Fullerton, Eric E. et al.					
8	F	F	US 20040040715	20040304		In situ production of a blending agent from a h	166/302			Wellington, Scott Lee et al.					
9	F	F	US 20030218834	20031127		Magnetic recording media and magnetic stor	360/313	360/135		Kambe, Tetsuya et al.					
10	F	F	US 20030211364	20031113		Magnetic recording media and magnetic reco	428/694TS	428/611		Kambe, Tetsuya et al.					
11	F	F	US 20030205378	20031106		In situ recovery from lean and rich zones in	166/302			Wellington, Scott Lee et al.					
12	F	F	US 20030201098	20031030		In situ recovery from a hydrocarbon containin	166/53	702/12		Karanikas, John Michael et al.					
13	F	F	US 20030196810	20031023		Treatment of a hydrocarbon containin	166/300			Vinegar, Harold J. et al.					
14	F	F	US 20030196801	20031023		In situ thermal processing of a hydroca	166/263			Vinegar, Harold J. et al.					
15	F	F	US 20030196789	20031023		In situ thermal processing of a hvdroca	166/64			Wellington, Scott Lee et al.					
16	F	F	US 20030196789	20031023		Producing hydrocarbons	166/57			Vinegar, Harold J.					

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Document ID Issue Date Pages Title Current OR Current KR Retrieval Inventor S C P 2 3													
15	F	F	US 20030196789	20031023		In situ thermal processing of a hydrocarbon	166/64			Wellington, Scott Lee et al.	F	F	F
16	F	F	US 20030196788	20031023		Producing hydrocarbons and non-hydrocarbon compounds	166/57			Vinegar, Harold J. et al.	F	F	F
17	F	F	US 20030192693	20031016		In situ thermal processing of a hydrocarbon	166/267			Wellington, Scott Lee	F	F	F
18	F	F	US 20030192691	20031016		In situ recovery from a hydrocarbon containing	166/250.12			Vinegar, Harold J. et al.	F	F	F
19	F	F	US 20030183390	20031002		Methods and systems for heating a hydrocarbon	166/302			Veenstra, Peter et al.	F	F	F
20	F	F	US 20030178191	20030925		In situ recovery from a kerogen and liquid hydrocarbon	166/65.1			Mahe, Kevin Albert et al.	F	F	F
21	F	F	US 20030173085	20030918		Upgrading and mining of coal	166/302	299/14		Vinegar, Harold J. et al.	F	F	F
22	F	F	US 20030173082	20030918		In situ thermal processing of a heavy oil	166/272.2			Vinegar, Harold J. et al.	F	F	F
23	F	F	US 20030173081	20030918		In situ thermal processing of an oil reservoir	166/272.1			Vinegar, Harold J. et al.	F	F	F
24	F	F	US 20030173072	20030918		Forming openings in a hydrocarbon containing	166/66.5			Vinegar, Harold J. et al.	F	F	F
25	F	F	US 20030155111	20030821		In situ thermal processing of a tar sand	166/59			Vinegar, Harold J. et al.	F	F	F
26	F	F	US 20030148143	20030807		Magnetic recording medium and magnetic recording	428/694TS	428/694BM; 428/694R;		Kanbe, Tetsuya et al.	F	F	F
27	F	F	US 20030108721	20030612	10	Thermally-assisted magnetic recording disk 'Thermal Spring'	428/195.1	428/694TM		Fullerton, Eric E. et al.	F	F	F
28	F	F	US 20020192506	20021219		Magnetic recording medium	428/694TM			Coffey, Kevin Robert et al.	F	F	F
29	F	F	US 20020191320	20021219		Thermally assisted magnetic recording system	360/59	360/78.04		Coffey, Kevin Robert et al.	F	F	F
30	F	F	US 20020150796	20021017		Magnetic recording media and magnetic recording	428/694TS			Kanbe, Tetsuya et al.	F	F	F
31	F	F	US 20020018920	20020214		Magnetic recording medium and magnetic recording	428/694TS			Yamamoto, Tomoo et al.	F	F	F
32	F	F	US 20010024743	20010927		Magnetic recording media and magnetic storage	428/694TS			Kanbe, Tetsuya et al.	F	F	F
33	F	F	US 6834026	20041221	10	Method for thermally-assisted magnetic recording	369/13.1	369/13.42; 369/275.2;		Fullerton, Eric E. et al.	F	F	F
34	F	F	US 6830837	20041214		Magnetic recording medium and magnetic recording	428/694TM	428/611; 428/667;		Kanbe, Tetsuya et al.	F	F	F
35	F	F	US 6830824	20041214		Magnetic recording medium with multiple magnetic	428/611	369/13.38; 428/336;		Kikitsu, Akira et al.	F	F	F
36	F	F	US 6596420	20030722		Magnetic recording media and magnetic recording	428/694TS	428/611; 428/667;		Kanbe, Tetsuya et al.	F	F	F
37	F	F	US 6574060	20030603		Magnetic storage apparatus	360/55	360/313; 428/694R;		Kanbe, Tetsuya et al.	F	F	F
38	F	F	US 6403240	20020611		Magnetic recording media and magnetic recording	428/694TS	360/131; 365/173;		Kanbe, Tetsuya et al.	F	F	F
39	F	F	US 6307720	20011023		Thin film magnetic head	360/313	360/126		Hayakawa, Yasuo	F	F	F

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		Document ID	Issue Date	Pages	Title	Current OR	Current XR	Retrieval	Inventor	S	C	P	3
22	F	US 20030173082	20030918		In situ thermal processing of a heavy oil	166/272.2			Vinegar, Harold J. et al.				
23	F	US 20030173081	20030918		In situ thermal processing of an oil reservoir	166/272.1			Vinegar, Harold J. et al.				
24	F	US 20030173072	20030918		Forming openings in a hydrocarbon-containing	166/66.5			Vinegar, Harold J. et al.				
25	F	US 20030155111	20030821		In situ thermal processing of a tar sand	166/59			Vinegar, Harold J. et al.				
26	F	US 20030148143	20030807		Magnetic recording medium and magnetic recording	428/694TS	428/694BM;		Kanbe, Tetsuya et al.				
27	F	US 20030108721	20030612	10	Thermally-assisted magnetic recording disk	428/195.1	428/694R;	428/694TM	Fullerton, Eric E. et al.				
28	F	US 20020192506	20021219		'Thermal Spring' magnetic recording medium	428/694TM			Coffey, Kevin Robert et al.				
29	F	US 20020191320	20021219		Thermally-assisted magnetic recording system	360/59	360/78.04		Coffey, Kevin Robert et al.				
30	F	US 20020150796	20021017		Magnetic recording media and magnetic recording	428/694TS			Kanbe, Tetsuya et al.				
31	F	US 20020018920	20020214		Magnetic recording medium and magnetic recording	428/694TS			Yamamoto, Tomoo et al.				
32	F	US 20010024743	20010927		Magnetic recording media and magnetic storage	428/694TS			Kanbe, Tetsuya et al.				
33	F	US 6834026 B2	20041221	10	Method for thermally-assisted recording	369/13.1	369/13.42;	369/275.2;	Fullerton, Eric E. et al.				
34	F	US 6830837 B2	20041214		Magnetic recording medium and magnetic recording	428/694TM	428/611;	428/667;	Kanbe, Tetsuya et al.				
35	F	US 6830824 B2	20041214		Magnetic recording medium with multiple magnetic	428/611	369/13.38;	428/336;	Kikitsu, Akira et al.				
36	F	US 6596420 B2	20030722		Magnetic recording media and magnetic recording	428/694TS	428/611;	428/667;	Kanbe, Tetsuya et al.				
37	F	US 6574060 B2	20030603		Magnetic storage apparatus	360/55	360/313;	428/694R;	Kanbe, Tetsuya et al.				
38	F	US 6403240 B1	20020611		Magnetic recording media and magnetic recording	428/694TS	360/131;	365/173;	Kanbe, Tetsuya et al.				
39	F	US 6307720 B1	20011023		Thin film magnetic head	360/313	360/126		Hayakawa, Yasuo				
40	F	US 6275028 B1	20010814		Methods for initializing and/or recording	324/210	29/603.08;	324/228;	Matsui, Takao et al.				
41	F	US 6221508 B1	20010424		Magnetic recording media	428/617	427/131;	427/132;	Kanbe, Tetsuya et al.				
42	F	US 5585986 A	19961217		Digital magnetoresistive sensor	360/324	257/E43.00	5;	Parkin, Stuart S. et al.				
43	F	US 5583727 A	19961210		Multiple data layer magnetic recording data	360/324	360/135;	360/55;	Parkin, Stuart S. et al.				
44	F	US 5447781 A	19950905		Magnetoresistance film and method of manufacture	428/212	257/E43.00	5;	Kano, Hiroshi et al.				
45	F	US 4560624 A	19851224		Magnetic recording media with a dual protection	428/632	428/621;	428/660;	Guttner, Christine et al.				